

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05483

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H02J3/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 310 048 A (TOKYO SHIBAURA ELECTRIC CO) 5 April 1989 (1989-04-05) the whole document	1-10
A	US 6 317 339 B1 (NAKAGAWA MASANORI ET AL) 13 November 2001 (2001-11-13) the whole document	1-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

18 March 2004

Date of mailing of the international search report

26/03/2004

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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			KR	9103296 B1		25-05-1991
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